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## PATENT ABSTRACTS OF JAPAN

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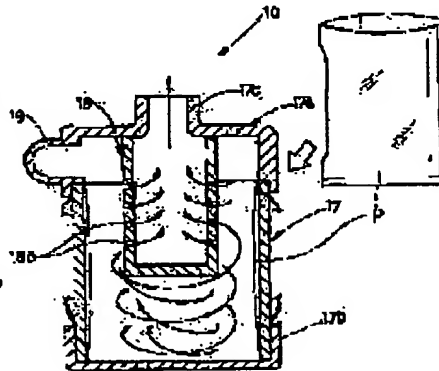
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## (54) CYCLONE SEPARATOR WITH RECOVERY BAG

## (57)Abstract

**PROBLEM TO BE SOLVED:** To provide a cyclone separator which does not soil worker's hands and clothes, discharges all of collected materials to be separated and prevents collection efficiency of materials to be separated from lowering due to deformation by sucking of a collection bag in a cylindrical casing.

**SOLUTION:** When trash is abandoned, a dust collecting bag P is taken out of the inside of the cylindrical casing 17 and is abandoned as it is to enable whole collected trash to be abandoned. Thereby when abandoned, the trash is not scattered around and sticking of the trash to worker's hands and clothes and to a peripheral floor due to electrostatic action or the like is eliminated. Further since the dust collecting bag P in a swollen state is fixed to an inner peripheral surface of the cylindrical casing 17, the dust collecting bag P is hardly turned up by sucking force of a cleaner main body 14. Consequently malfunction of the cyclone because of housing the dust collecting bag P in the cylindrical casing 17 can be prevented.



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